

PI 1192413

REC'D 19 JUL 2004

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# THE UNITED STATES OF AMERICA

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UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

July 15, 2004

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OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT  
APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A  
FILING DATE.

APPLICATION NUMBER: 60/457,965

FILING DATE: March 27, 2003

RELATED PCT APPLICATION NUMBER: PCT/US04/09434

By Authority of the  
COMMISSIONER OF PATENTS AND TRADEMARKS



*M. Tarver*

M. TARVER  
Certifying Officer

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03-28-03

60457965 PTO/SB/16 (10-01)

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Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

**PROVISIONAL APPLICATION FOR PATENT COVER SHEET**

This is a request for filing a PROVISIONAL APPLICATION FOR PATENT under 37 CFR 1.53(c).

Express Mail Label No.

EU 982357215 US

INVENTOR(S)					
Given Name (first and middle [if any])		Family Name or Surname		Residence (City and either State or Foreign Country)	
Brock Wayne		Watson		Carrollton, Texas	
<input type="checkbox"/> Additional inventors are being named on the _____ separately numbered sheets attached hereto					
TITLE OF THE INVENTION (500 characters max)					
HYDRAULICALLY ACTIVATED EXPANSION CONE					
Direct all correspondence to: CORRESPONDENCE ADDRESS					
<input type="checkbox"/> Customer Number		000027684		Place Customer Number Bar Code Label here	
OR		Type Customer Number here			
<input checked="" type="checkbox"/> Firm or Individual Name		Todd Mattingly			
Address		1000 Louisiana Street			
Address		Suite 4300			
City		Houston	State	TX	ZIP 77002-5012
Country		USA	Telephone	713-547-2301	Fax 713-236-5585
ENCLOSED APPLICATION PARTS (check all that apply)					
<input checked="" type="checkbox"/> Specification Number of Pages		32		<input type="checkbox"/> CD(s), Number	
<input type="checkbox"/> Drawing(s) Number of Sheets				<input checked="" type="checkbox"/> Other (specify)	
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76				Return Receipt Postcard	
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT					
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.				FILING FEE AMOUNT (\$)	
<input type="checkbox"/> A check or money order is enclosed to cover the filing fees					
<input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number:		08-1394		\$160.00	
<input type="checkbox"/> Payment by credit card. Form PTO-2038 is attached.					
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.					
<input checked="" type="checkbox"/> No.					
<input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: _____					

Respectfully submitted,

SIGNATURE



Date 03/27/2003

TYPED or PRINTED NAME Todd Mattingly

REGISTRATION NO.  
(if appropriate)

40,298

TELEPHONE 713-547-2301

Docket Number:

25791.260

**USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT**

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Box Provisional Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

EXPRESS MAIL NO. EU 982357215 US

DATE OF DEPOSIT: March 27, 2003

The Provisional Application for Patent Cover Sheet and the following 32 pages are being deposited with the U.S. Postal Service Express Mail Post Office to Addressee Service under 37 CFR §1.10 on the date indicated above and is addressed to: BOX PROVISIONAL PATENT APPLICATION, Commissioner for Patents, Washington, D.C. 20231

Vikki M. Meriwether

Name of person mailing paper and fee

Vikki M. Meriwether

Signature of person mailing paper and fee

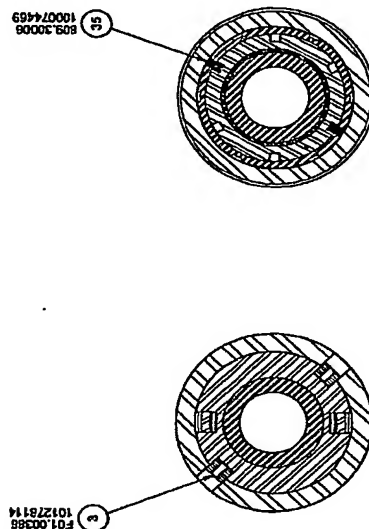
## HYDRAULICALLY ACTIVATED EXPANSION CONE

INVENTOR: BROCK WATSON

The first, F03.00077 is an expandable/retractable cone assembly used to expand the overlap section at the bottom of the casing. This tool will expand when pressure (<500 psi) is applied to the inside and it will collapse by spring power. However, the tool cannot collapse if the cone is near the end of the casing because the cone segments (items 20) have to move upwards to collapse. The tool has a device that checks the diameter (items 43 & 44). If the diameter is smaller than the expanded cone OD the cone will not try expanding. However, there is an override device that prevents the tool from checking the diameter until it is expanded one time (items 49, 50, & 51).

There is a burst pressure disk located below the cone segments (item 37). This is an emergency release device that is used incase the upper mechanism gets hung up and cannot collapse the cone. Once the burst disk is ruptured, a sleeve (item 16) will shift and uncover some dogs (item 15). The pressure acting across the lower piston (item 19) will pull the lower cone segments (item 5) down and collapse the cone assy.

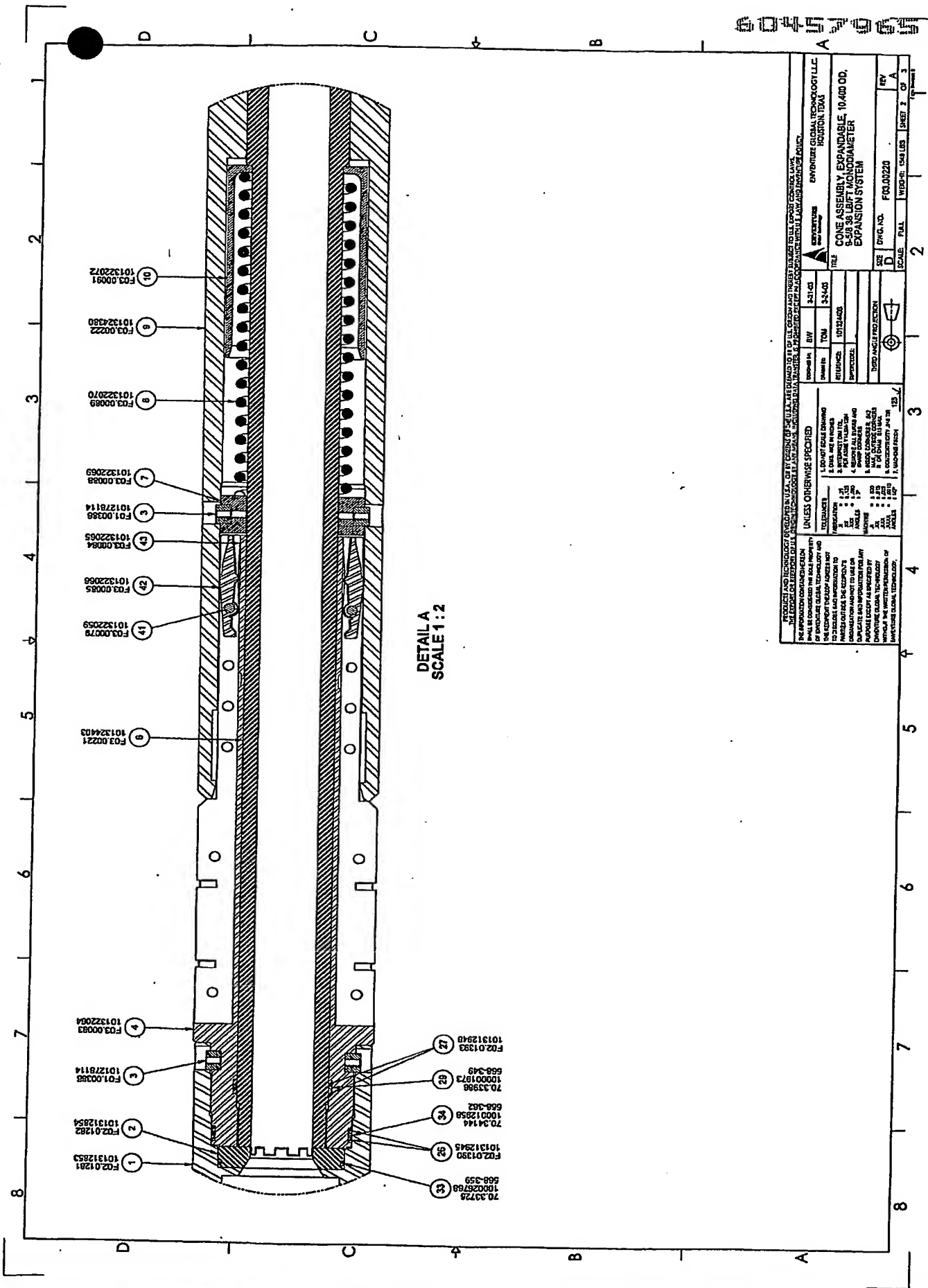
The second tool is F03.00220. This cone is the same as F03.00077 except the cone is smaller and is used for the general expansion of the casing. This tool does not have the casing diameter checking device installed. It also has a device that locks the cone in the expanded position once it has been expanded. It has the same safety device.



**SECTION C-C**  
**SCALE 3:8**

**SECTION D-D**  
**SCALE 3:8**

PROPERTY OF: <b>TECHNOLOGY CORPORATION, 3511 WINTER HILLS BL., SUITE 200, DALLAS, TEXAS 75219, (214) 343-7000, FAX (214) 343-7001</b>		PROPERTY OF: <b>TECHNOLOGY CORPORATION, 3511 WINTER HILLS BL., SUITE 200, DALLAS, TEXAS 75219, (214) 343-7000, FAX (214) 343-7001</b>	
INSPECTION BY: <b>TECHNOLOGY CORPORATION, 3511 WINTER HILLS BL., SUITE 200, DALLAS, TEXAS 75219, (214) 343-7000, FAX (214) 343-7001</b>		INSPECTION BY: <b>TECHNOLOGY CORPORATION, 3511 WINTER HILLS BL., SUITE 200, DALLAS, TEXAS 75219, (214) 343-7000, FAX (214) 343-7001</b>	
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DRAWING NO. F03.00220 SCALE FULL SHEET 2 OF 3	REV. A DATE 10/1/2002
CONE ASSEMBLY, EXPANDABLE, 10,400 OD, EXPANSION SYSTEM	
PROVIDER GLOBAL TECHNOLOGY LLC HOUSTON, TEXAS	



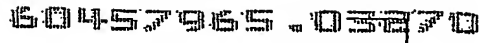
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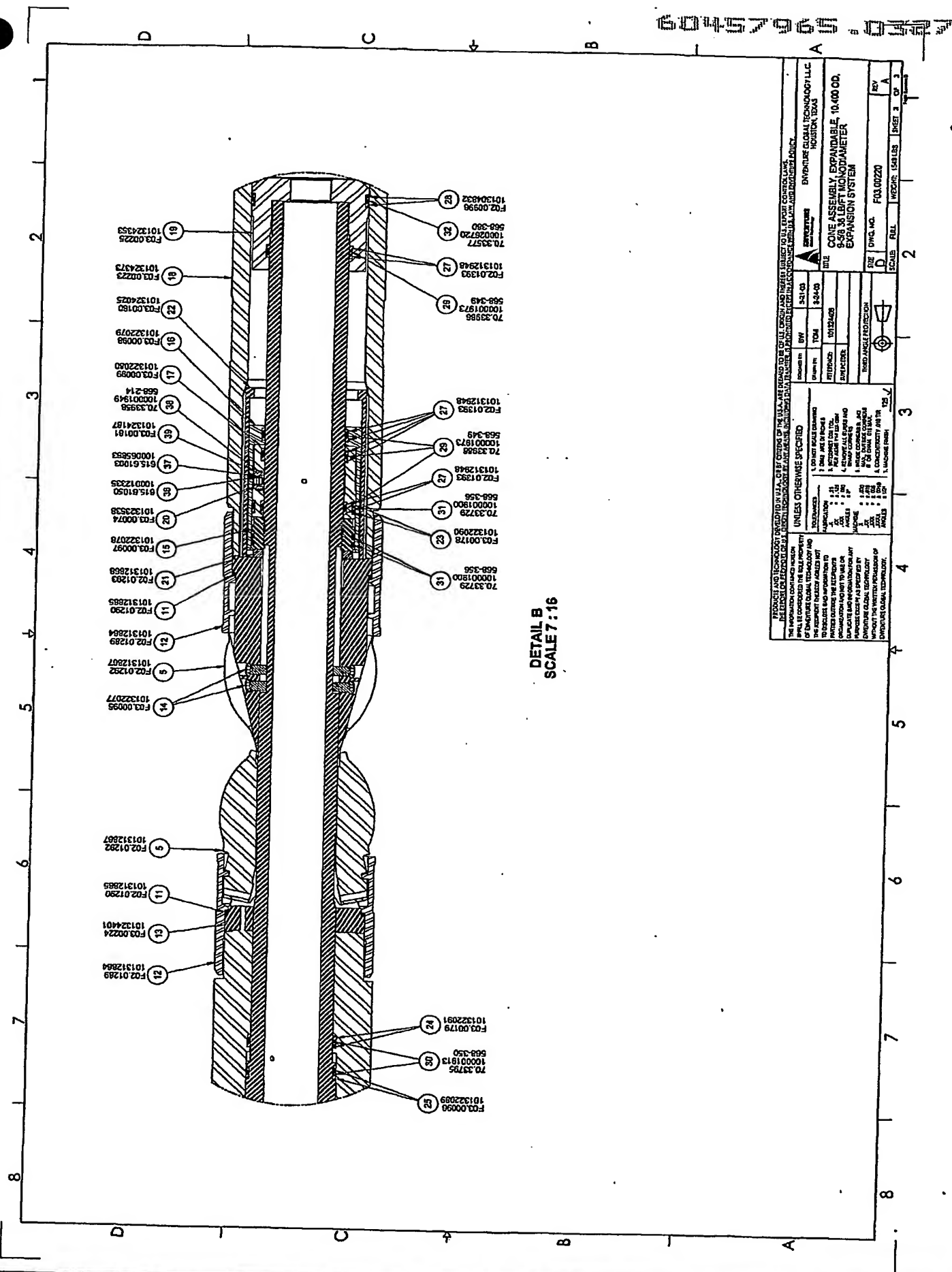




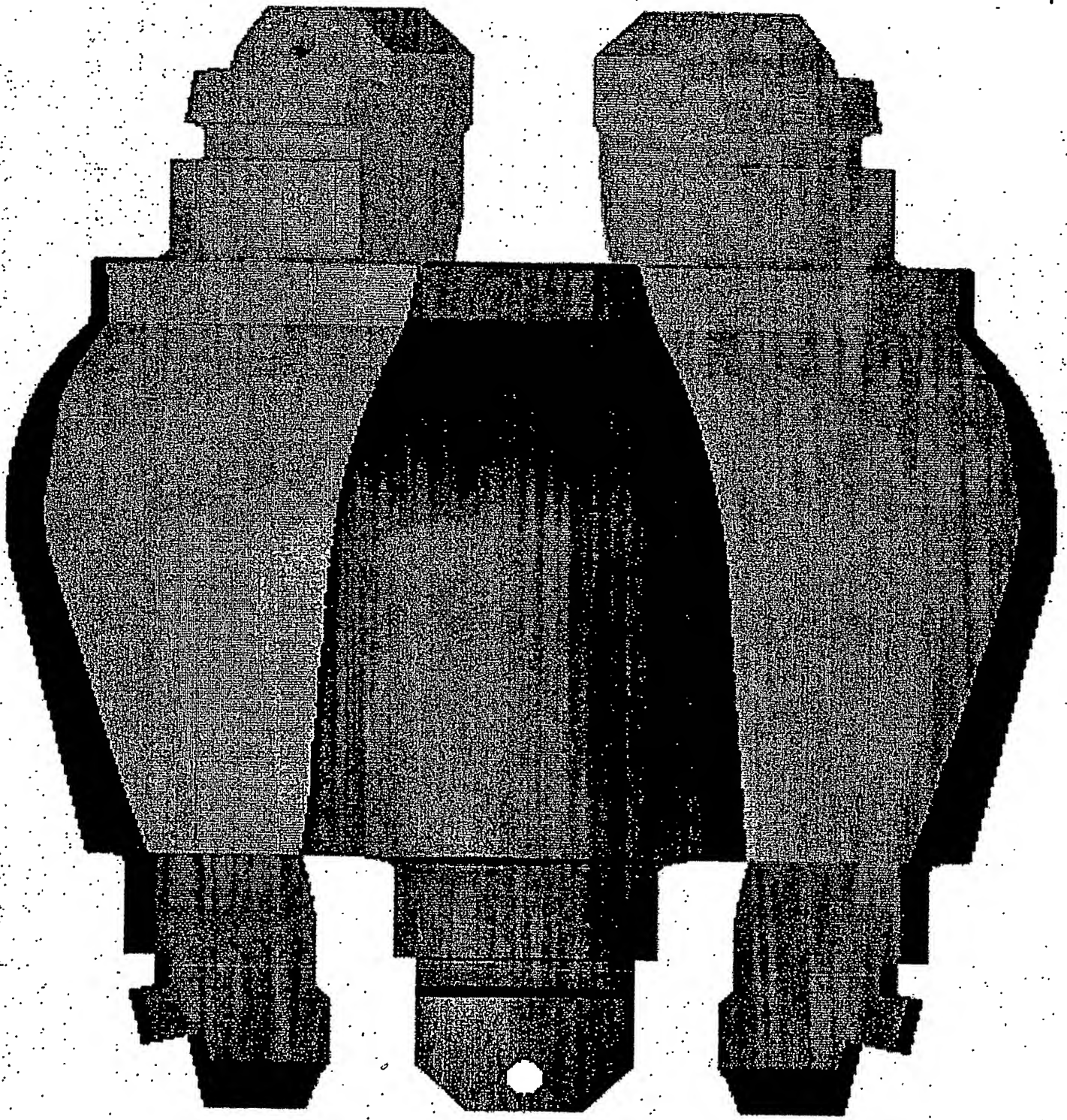


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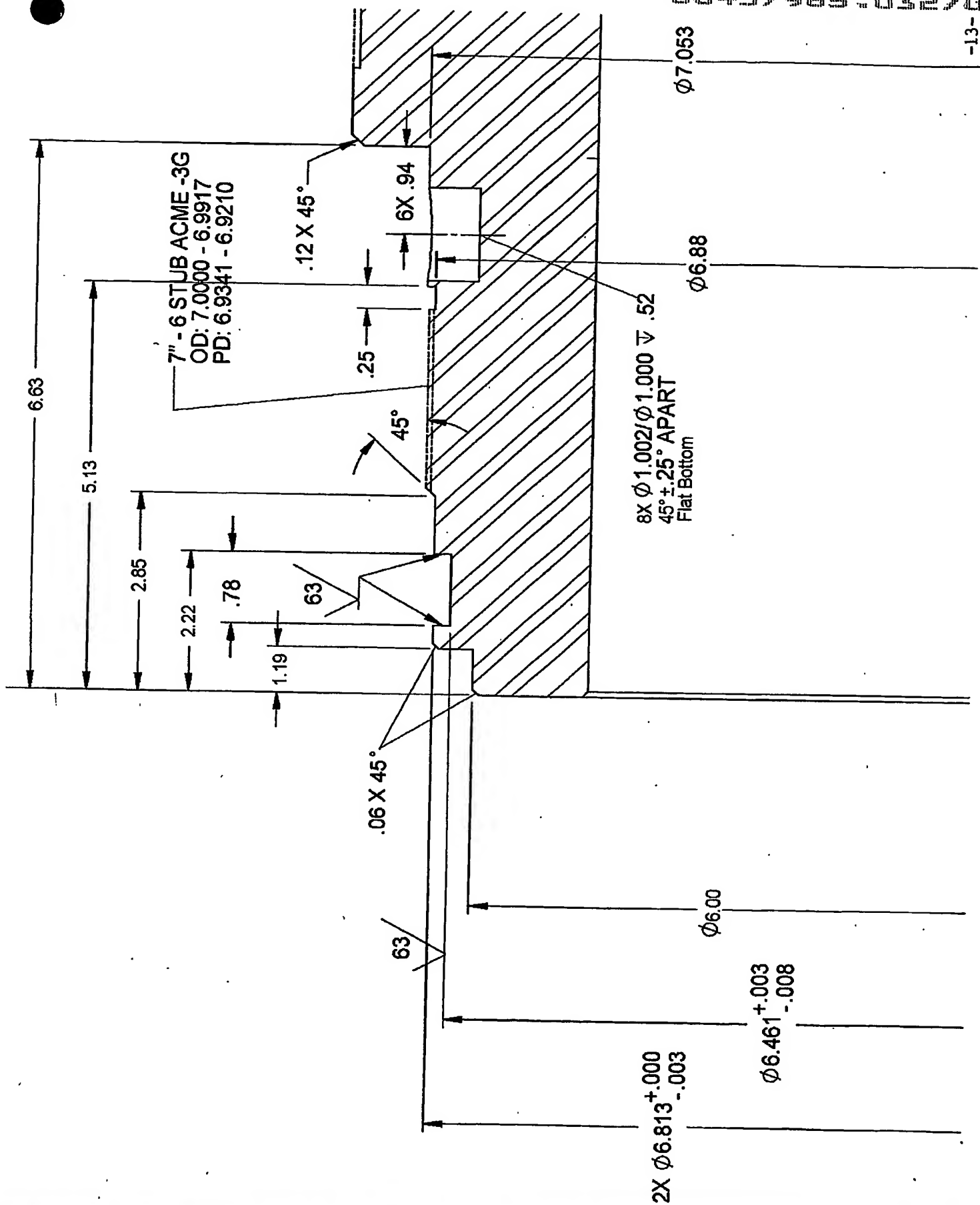






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12 MAY 1964



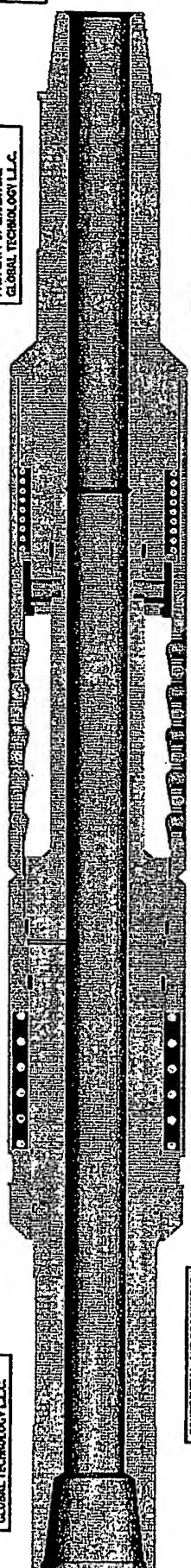


9-618-36 ppf Ball Gripper

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GLOBAL TECHNOLOGY LLC



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# CAP Web Application

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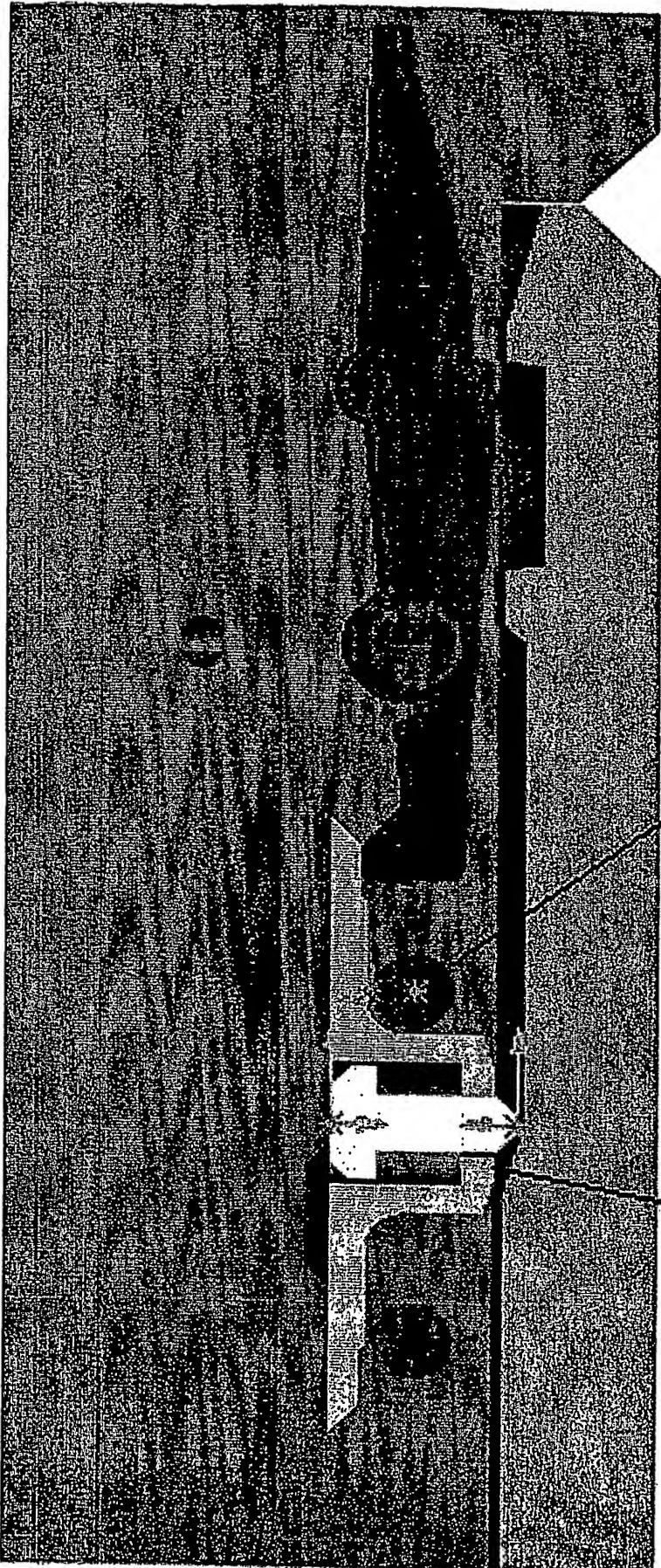
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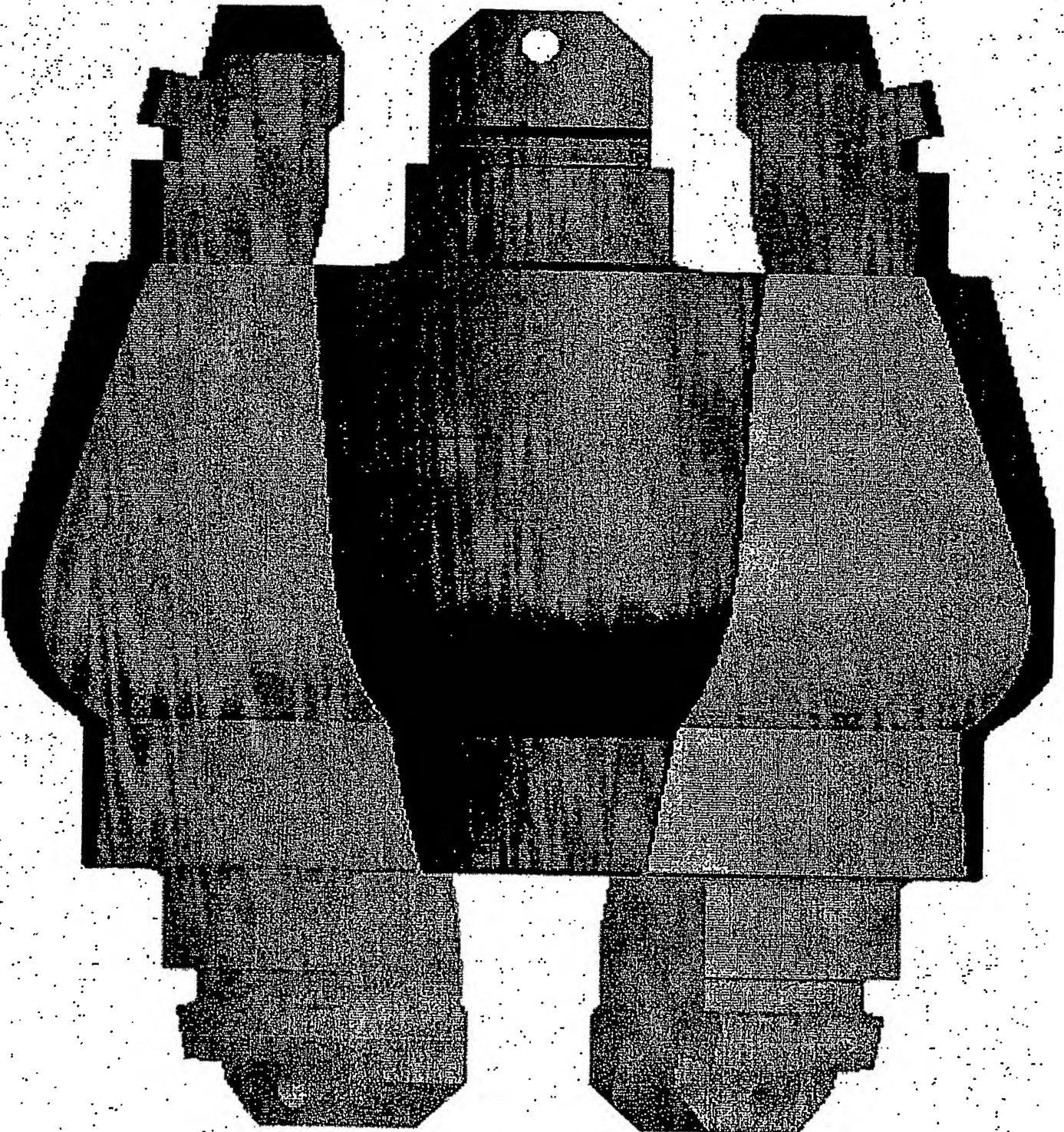
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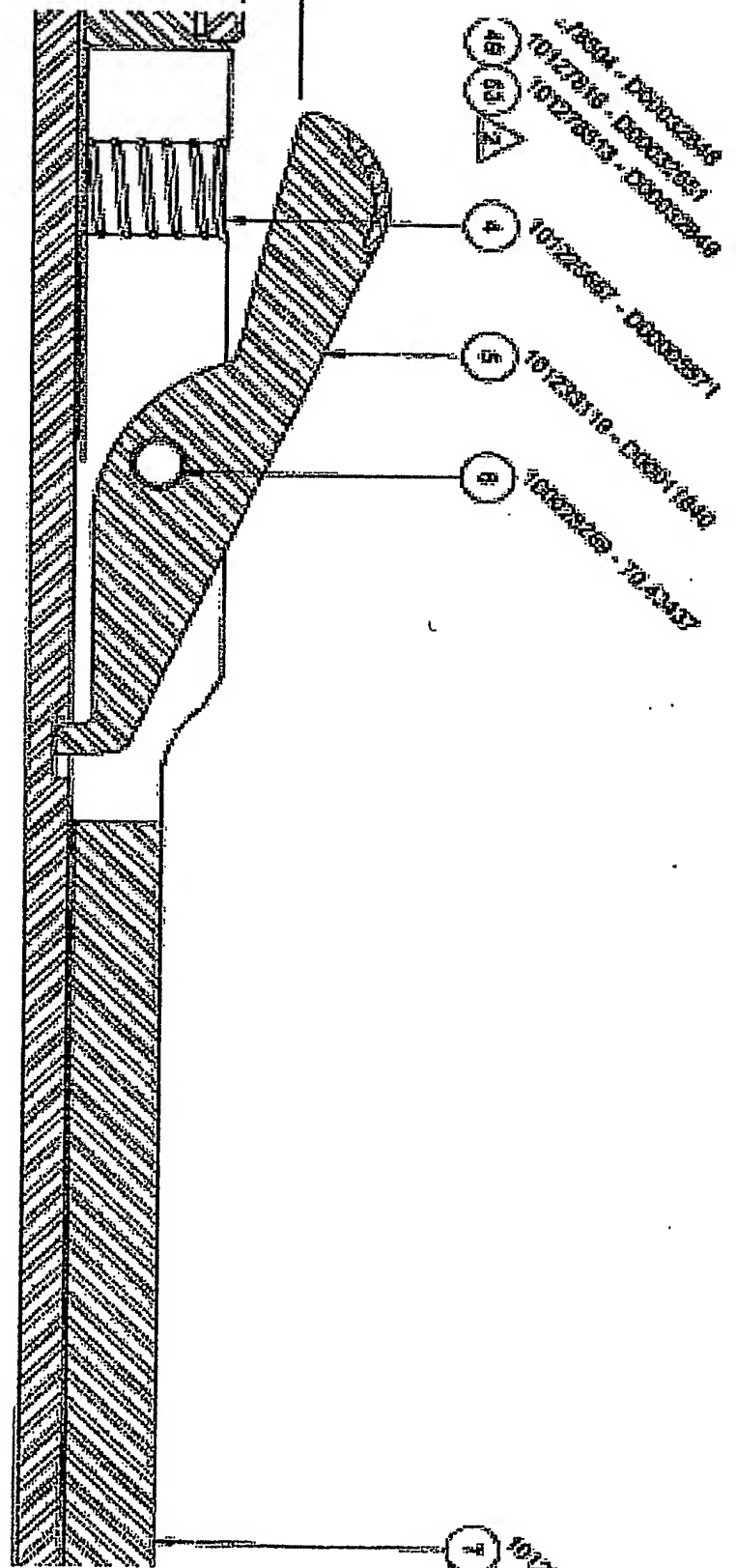
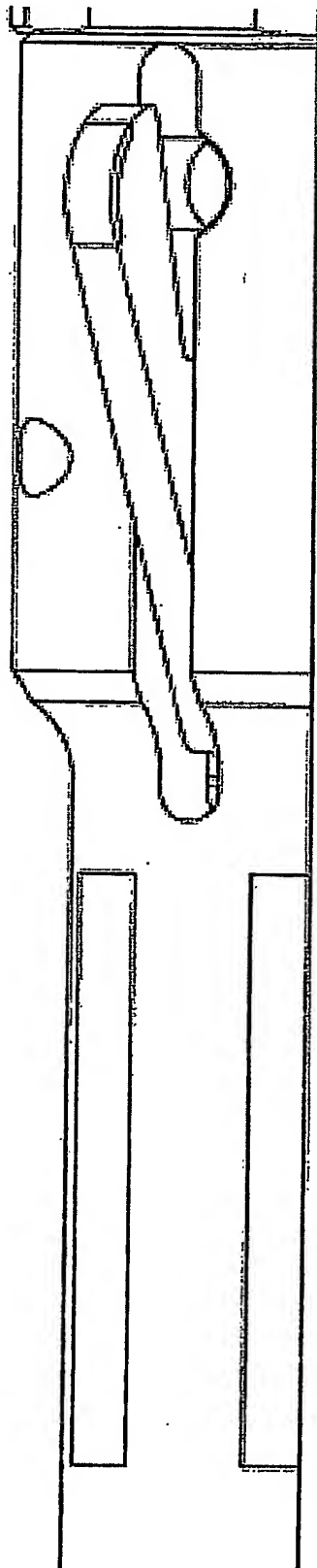
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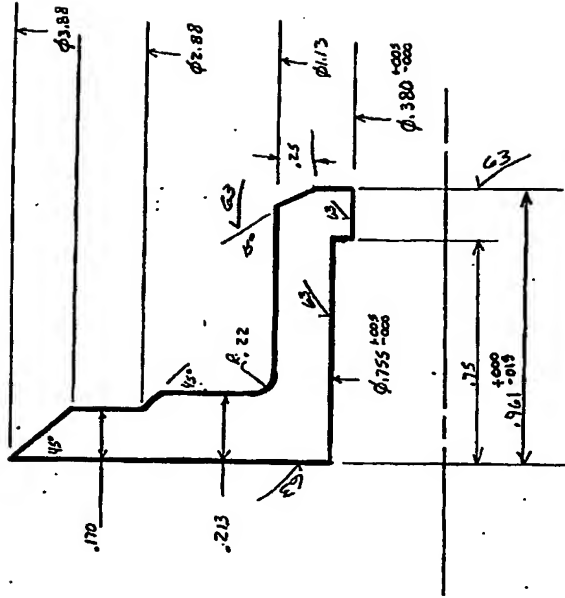


**F03.00071**  
**F03.00072**  
**F03.00073(Spring)**



I used a two piece dog so that I  
would not have this gap.



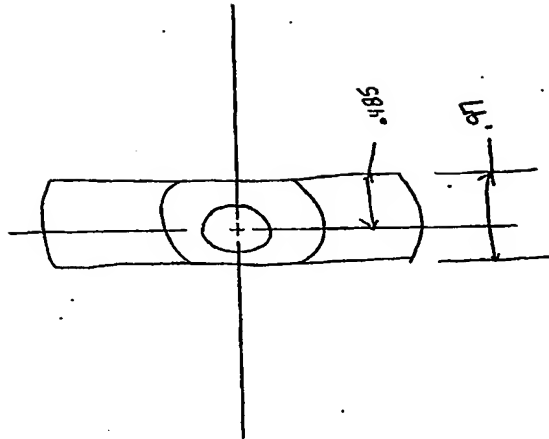


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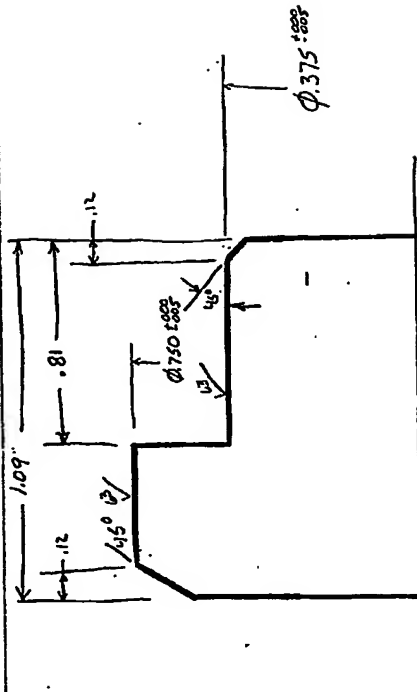
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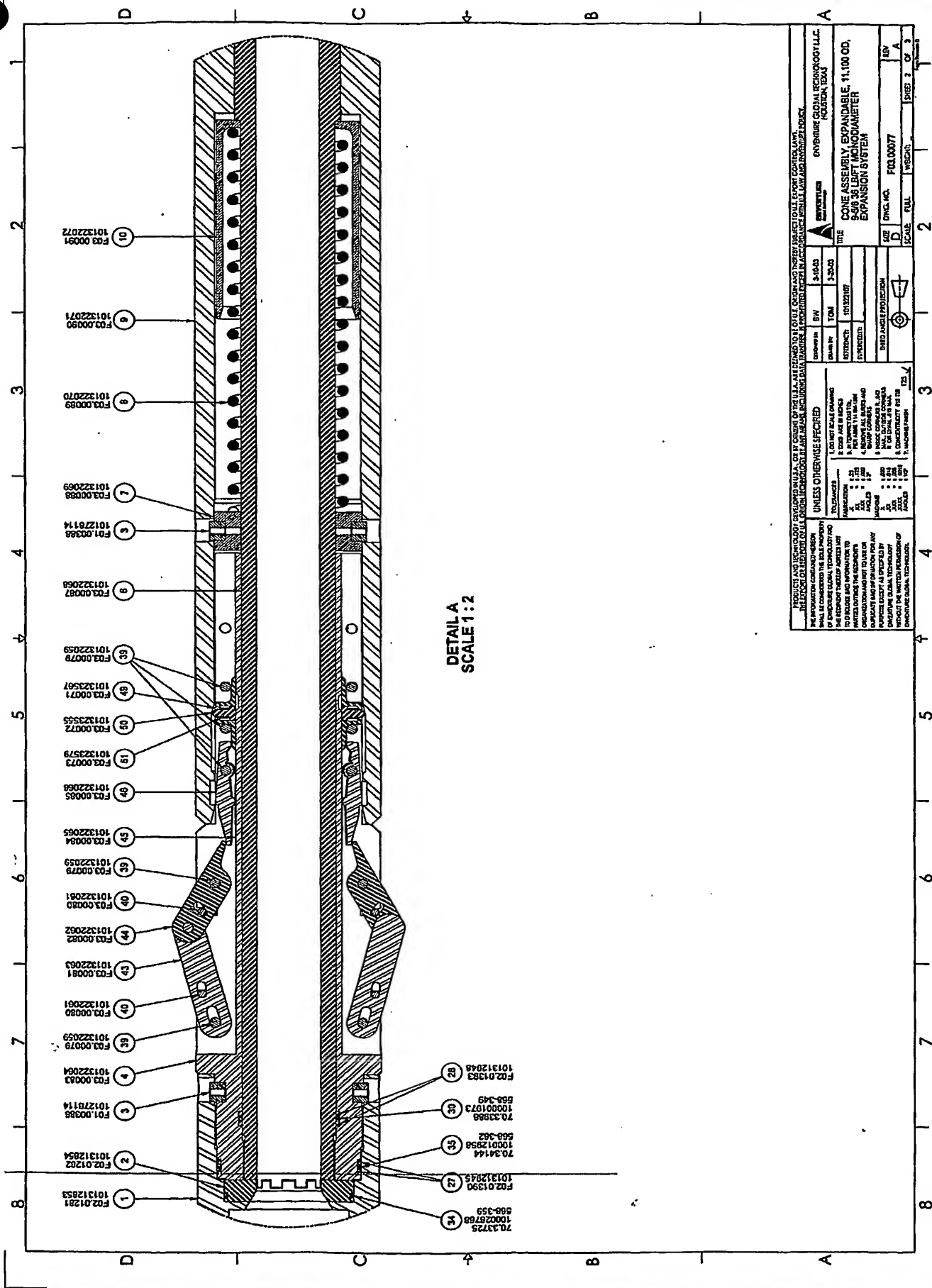


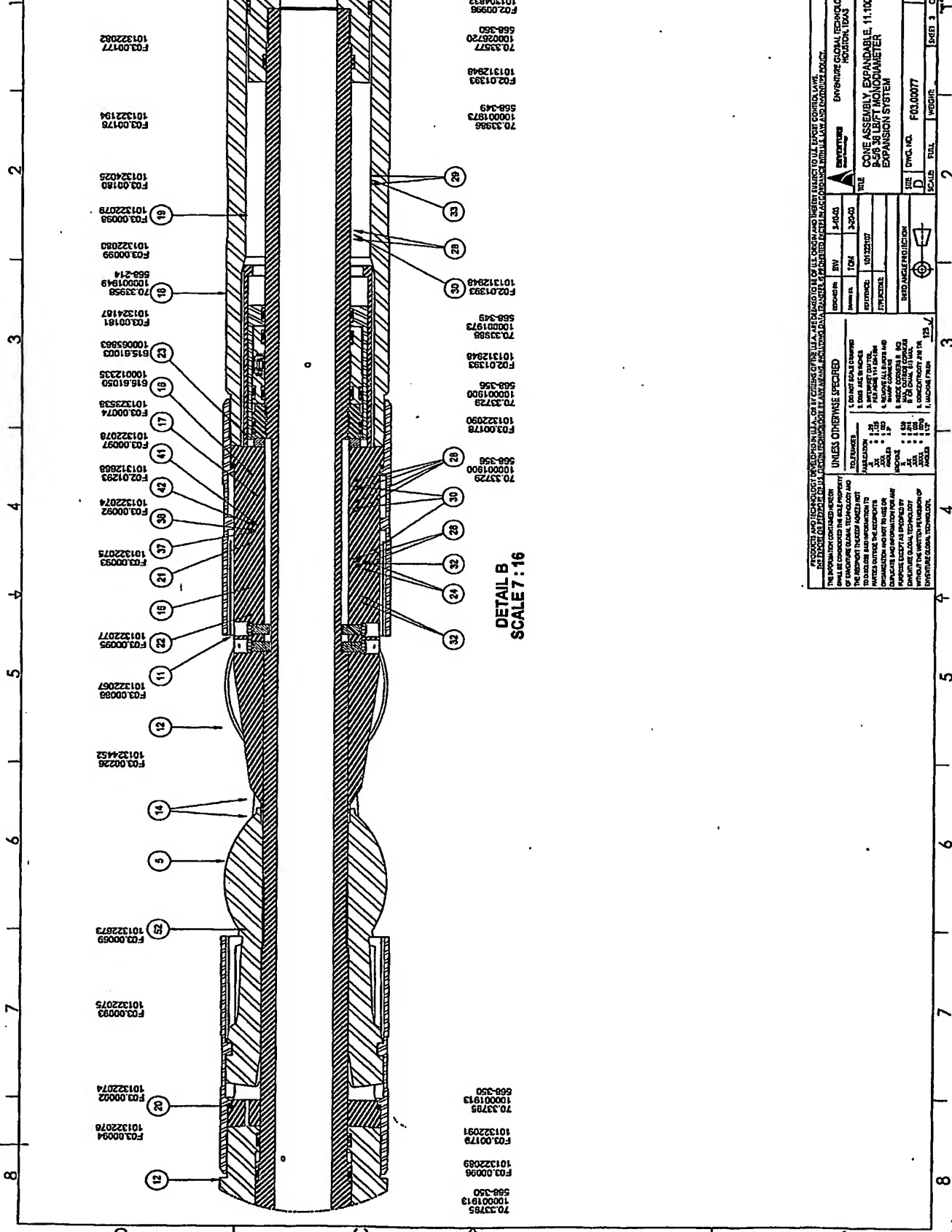
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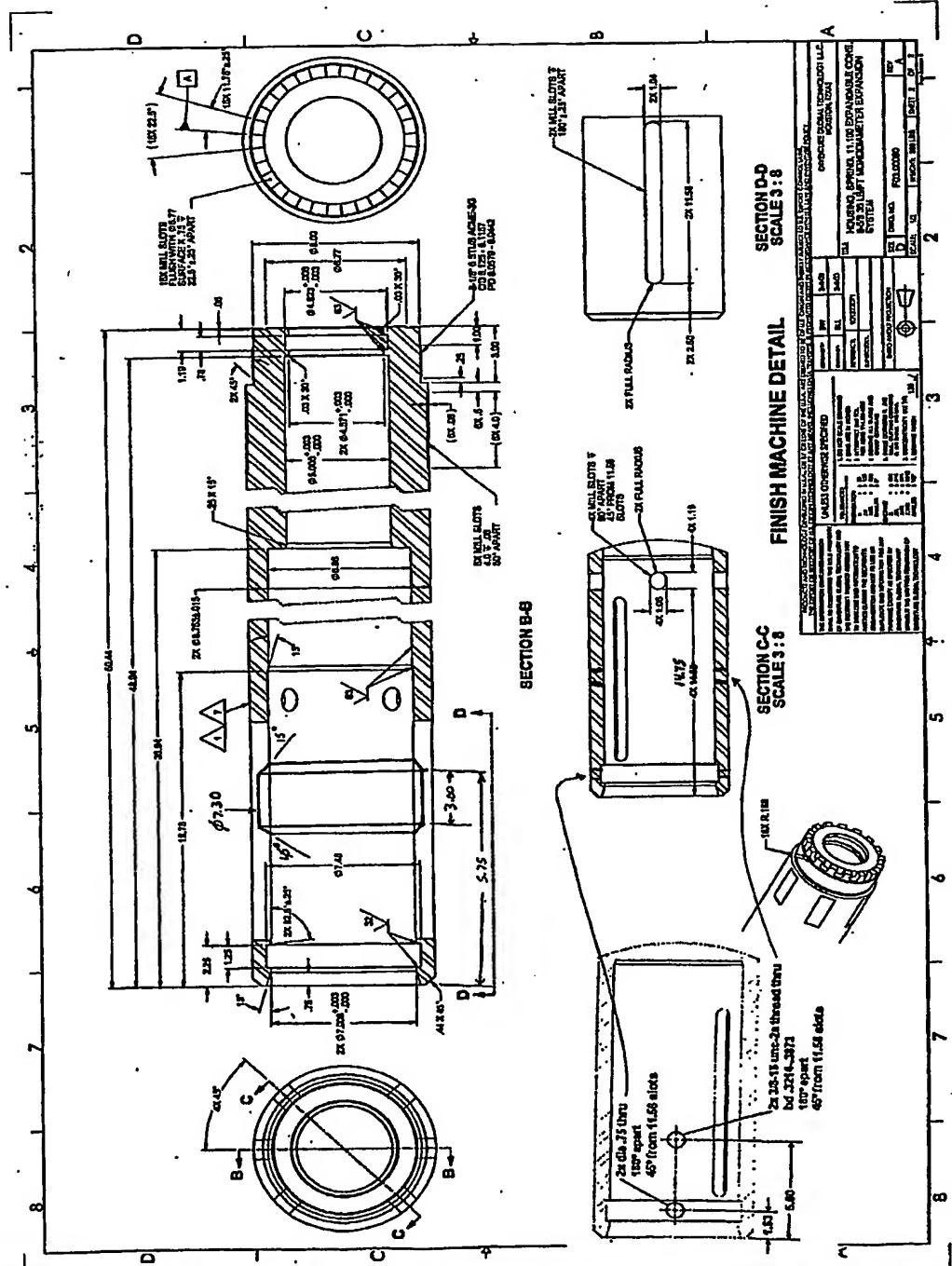


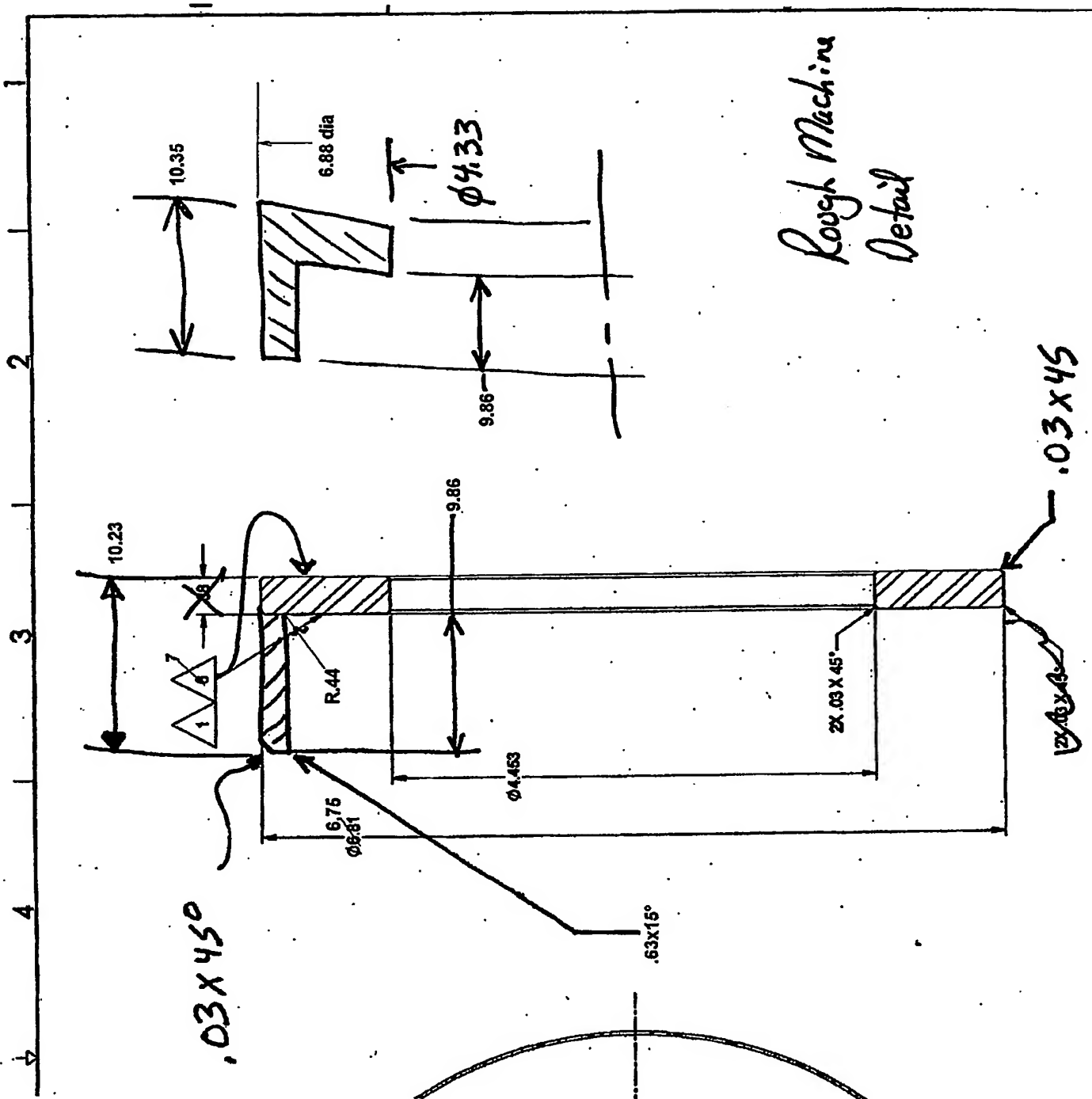
**DETAIL B**  
**SCALE 7:16**

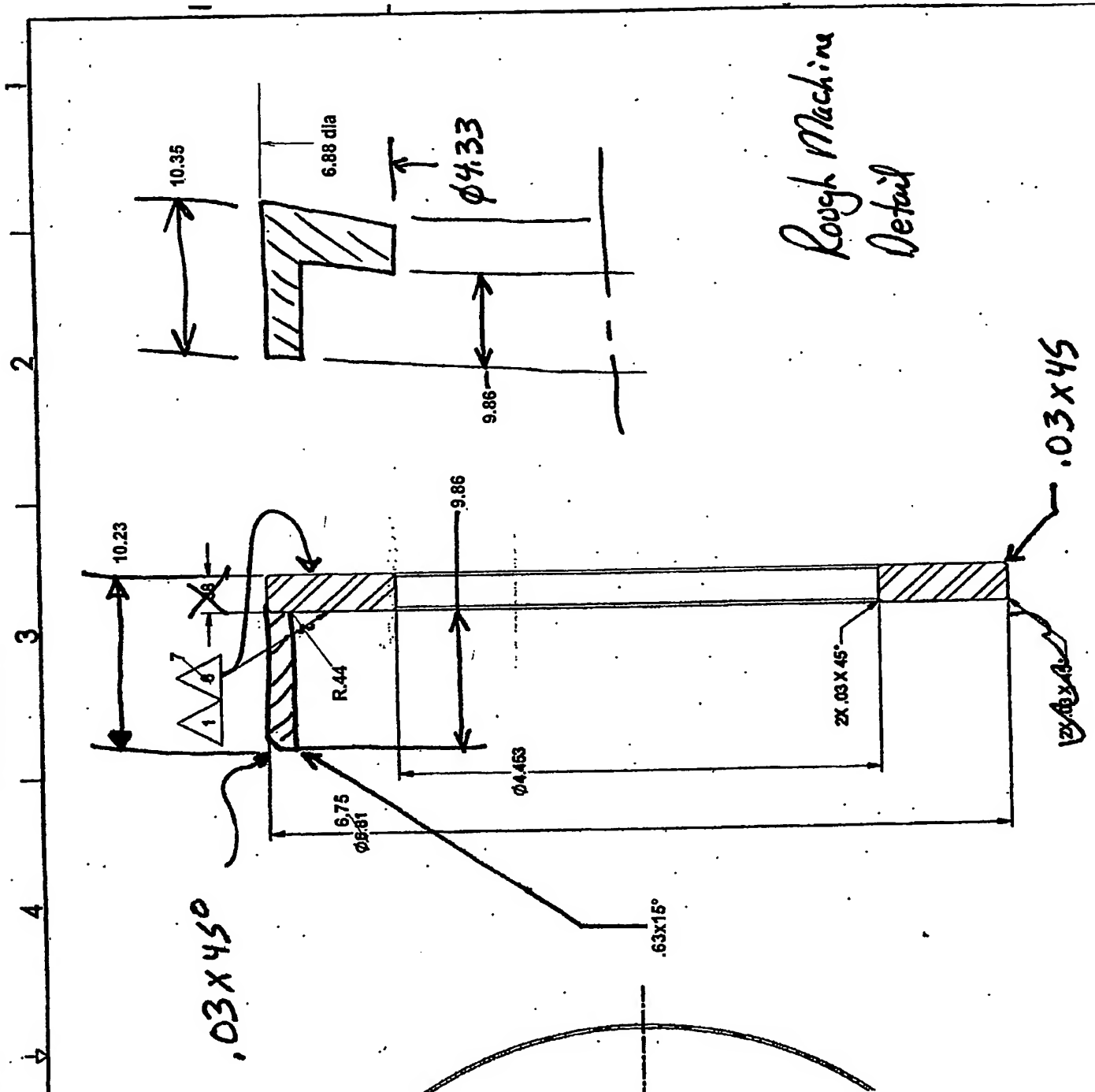
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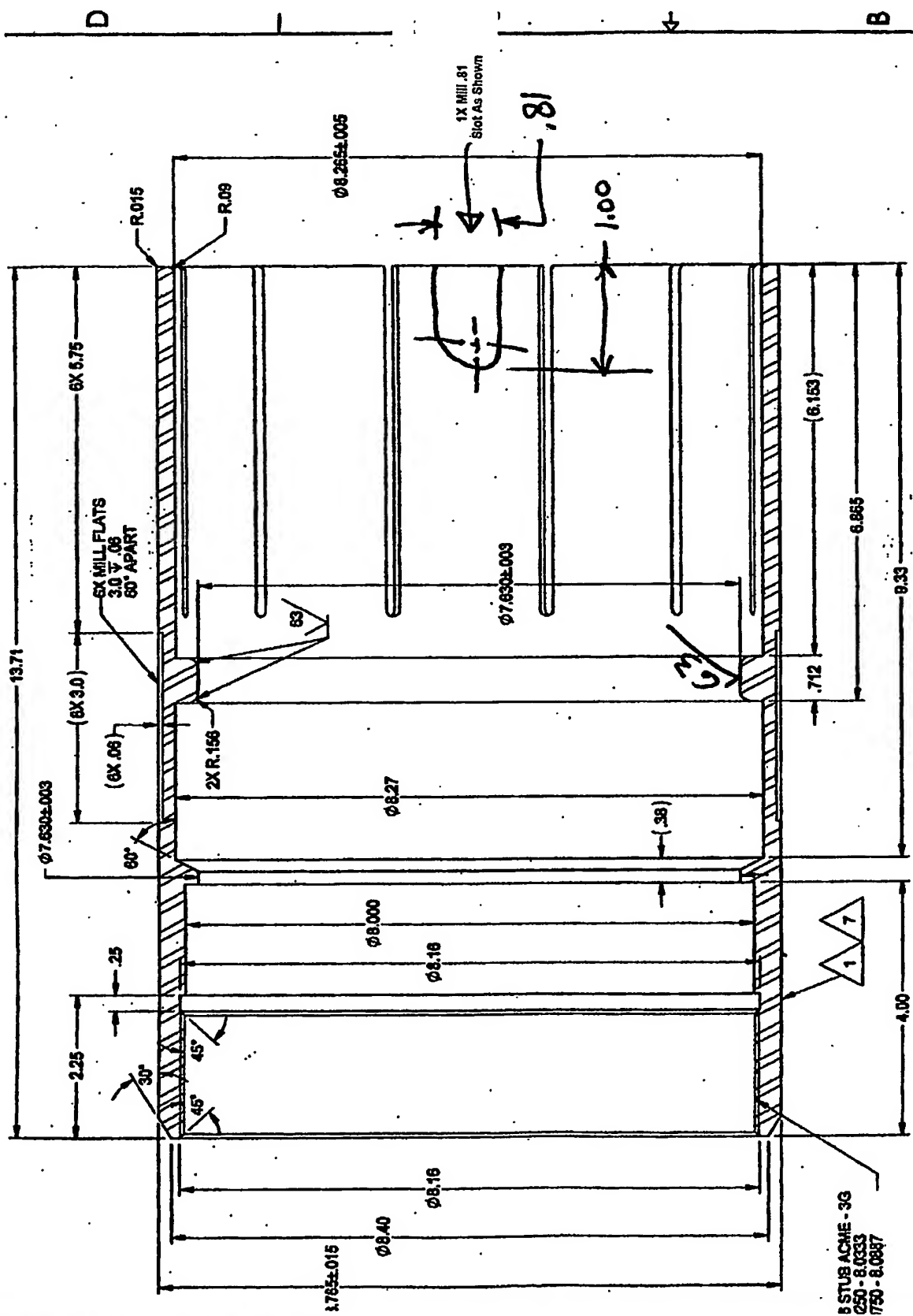




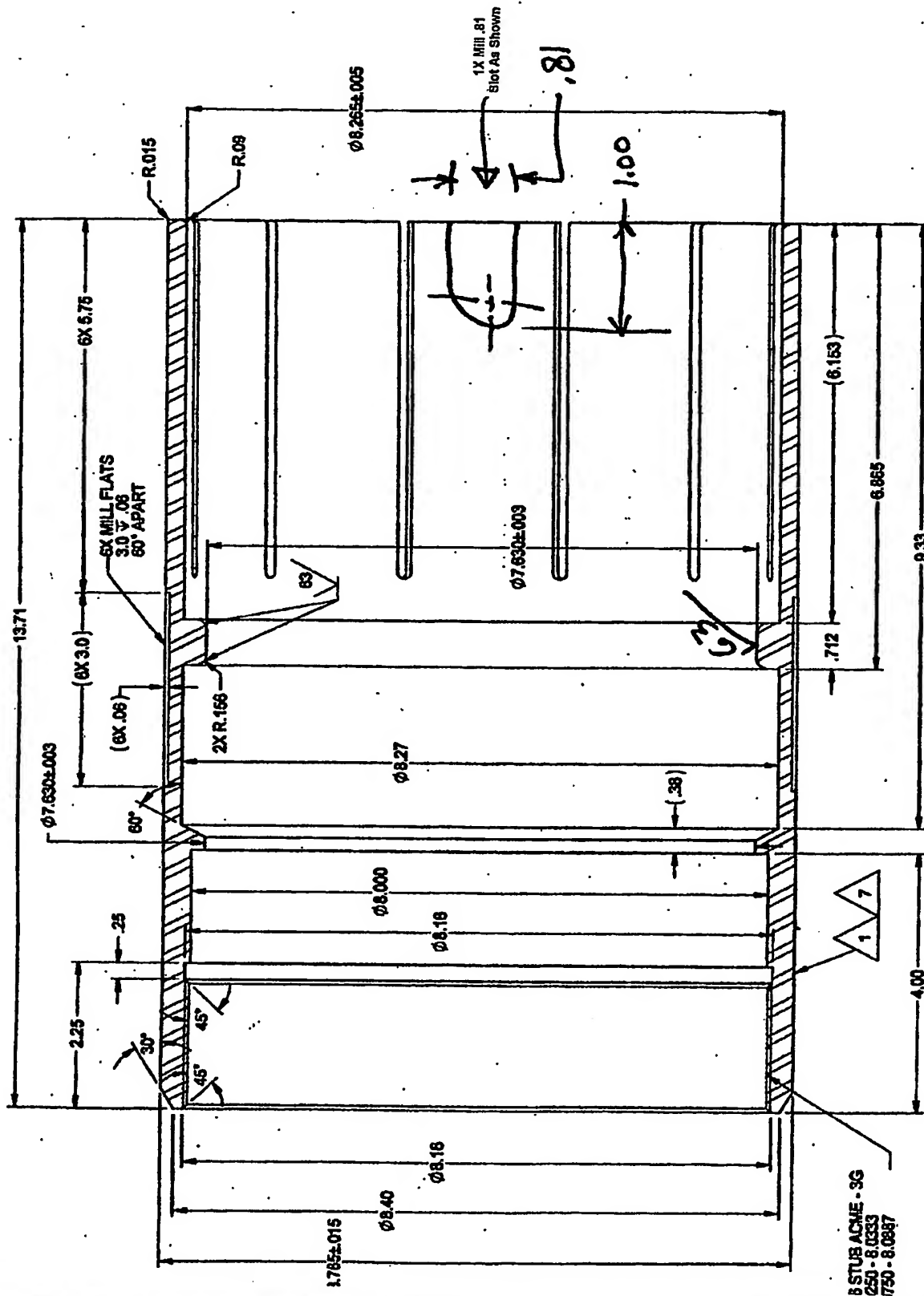








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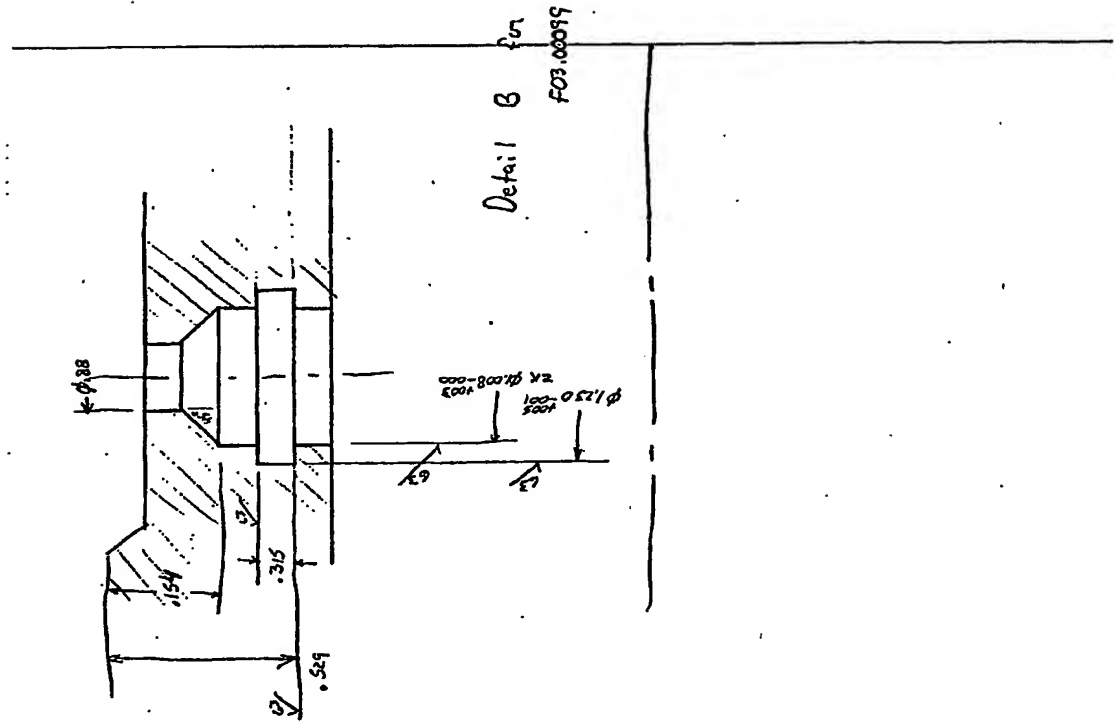
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